arrows A. External air flow is illustrated with reference to arrows B. In use, the first plurality of fans 134 may blow re-circulated air through channels 144 on a side 138b of plenum 128 to the surface of the plurality of light sources 120 positioned between plate 124 and heat shield 116. The circulated air may flow across a surface of the plurality of light sources 120 and absorb and transfer the heat. The heated air may be directed to flow through channels (not shown) on side 138a of plenum 128 to the bottom portion 148 of heat exchanger 130. Fans 132 may direct external air in the direction of arrows B, through a plurality of fins 176 (FIG. 1E) on top portion 146 of heat exchanger 130, whereby the external air absorbs and transfers the heat from the heated re-circulated air out of the lighting module 112. Thus, the re-circulated air may be cooled by the external air when blown through the heat exchanger 130, before returning to the plurality of light sources 120. Using re-circulated air to cool the plurality of light sources 120 prevents any dirt, dust or any other contaminates from contacting and building up on the plurality of light sources 120.

[0041] In another example, the cooling medium may be re-circulated throughout the lighting module 112 using at least one conduit or fluid passageway. As the term is used herein, a conduit refers to a channel, tube, routing port, pipe, or the like that permits or communicates a fluid (a gas, liquid, or combination thereof) between two locations. The plenum 128 may be designed to house a plurality of conduits interconnected with the first plurality of fans 134 and heat exchangers 130 to re-circulate the cooling medium therethrough. In another embodiment, conduits may be positioned near or on the surface of the plurality of light sources 120 between the plurality of light sources 120 and plate 124, where the cooling medium may absorb and transfer the heat generated by the plurality of light sources 120. As the cooling medium flows through the plenum 128 and/or conduits, it may absorb and transfer the heat generated from the plurality of light sources 120. The cooling medium may then be flowed through the conduit to a bottom portion 148 of the heat exchangers 130a-c. Fans 132a-c may blow an air source, such as ambient air, into a top portion 146 of the heat sinks 130a-c to absorb and transfer the heat from the heated cooling medium as the heated cooling medium is flowed through the conduits in the heat exchanger 130a-c. The cooled cooling medium may then be recirculated from the heat exchangers 130a-c to the plenum 128 to absorb additional heat generated from the lighting sources.

[0042] The cooling medium may be any gas, fluid or liquid, or any other material that is able to absorb heat, such as anti-freeze. In one embodiment, air may be used as a cooling medium in the conduit. In other embodiments, the cooling medium may be external ambient air.

[0043] FIG. 1E is a back perspective view of the separable backlighting system of FIGS. 1A-1D. The lighting module may have a back casing 142 to enclose the lighting module 112 in a housing. The lighting module 112 may have a power inverter board 170. Power inverter board 170 may provide the necessary voltage to run the plurality of light sources 120.

[0044] The lighting module 112 may also have a logic device 136. Logic device 136 may be any programmable logic device, processor, video card, or the like. FIG. 1F is a block diagram of an exemplary logic device of the separable backlighting system of FIGS. 1A-1E. Although illustrated with specific components, the components are not intended to be limiting as the logic device 136 may have other compo-

nents as desired by the user. Logic device 136 may have a processor 150 having a memory 152 to store any desired data such as a desired brightness of the lighting module 112 and video data 162 to store any video data. The memory may be any type of known memory such as random access memory (RAM), non-volatile random access memory (NVRAM), or the like. The processor 150 may be coupled to a user input 154 to receive signals from a user. The user input 154 may be any type of known input such as a keyboard, touch screen, mouse, or the like. Processor 150 may control the fans 132, 134, light sources 120, redundant light sources, and any other devices desired by the user. Processor 150 may also be in communication with any other devices, such as the master gaming controller, as further discussed below.

[0045] As briefly discussed above, logic device 136 may detect when one of the light sources 120 no longer emits light. In one embodiment, logic device 136 may communicate with a plurality of light sensors 164 coupled to the plurality of light sources 120, which may include a plurality of redundant light sources. The plurality of light sensors 164 may be any known light sensors. The light sensors 164 may communicate with processor 150 to inform the processor 150 when any of the light sources 120 no longer emit light. Any other known methods may be used to determine whether the light source is emitting light or not.

[0046] Should a user desire the display to be brighter or should one of the light sources no longer emit light, logic device 136 may transmit a signal to any redundant light source to turn on and emit light. In another example, a user may want less light output from the lighting module 112. Logic device may signal one of the light sources 120 to turn off and not emit light.

[0047] Logic device 136 may also control the speed of the fans 132, 134, thereby controlling the speed of the air flow through lighting module 112. In one embodiment, lighting module 112 may have at least one temperature sensor 180 in communication with logic device 136 to detect the temperature of the lighting module 112. When the temperature sensor 180 detects an overheating of the lighting module 112, logic device 136 may increase the speed of the fans 132, 134 to increase the air flow through the lighting module 112. Additionally or alternatively, logic device 136 may turn off any or all of the plurality of light sources 120. This prevents warping or premature failure of the optical module 100. When the temperature sensor 180 detects a temperature within a normal operating range, logic device 136 may turn on all or any of the plurality of light sources 120 and/or reduce the speed of the fans 132, 134.

[0048] Lighting module 112 may have any other logic devices desired by the user such as a touchscreen controller 172, power distribution board 174, on screen display board, or the like. Additionally, although illustrated positioned in specific locations, the locations are not intended to be limiting as the devices may be coupled to the lighting module 112 in any configuration.

[0049] Although the lighting module 112 is illustrated as a back lighting module coupled to the back of the optical module 100, the location of the lighting module is not intended to be limiting, as the module may be located on the sides, top, or any other location or configuration desired by the user.

[0050] FIGS. 2A and 2B illustrate right and left side views of the separable backlighting system of FIGS. 1A-1C, respectively. Optical module 100 may be a separate enclosed structure having a touch screen 16, first display device 102, optical